

High Frequency Vibratory-Rotary Drill

TONE-SONIC "SDH-100" Horizontal Drill

SDH-100 Horizontal Drill is designed for exclusive drilling applications such as anchoring and dewatering required for the prevention of land slide which causes in the vast area through nation-wide.

Its fastest drilling performance with less noise and vibration can contribute for the protection from natural disasters to minimize social economic loss.

TONE-SONIC DRILL
The Fastest Drilling Solution



TOA-TONE BORING CO., LTD.

<http://www.toa-tone.jp>

TONE-SONIC DRILL TECHNOLOGY is

An epoch-making drilling system transmitting high frequency vibration and rotation to drill bit and enables faster drilling than ordinary rotary drilling, DTH hammer drilling or hydraulic drifter drilling methods.

APPLICATION OF "SDH-100" HORIZONTAL DRILL

- Anchoring
- Dewatering hole
- Retaining bored pile



Anchoring

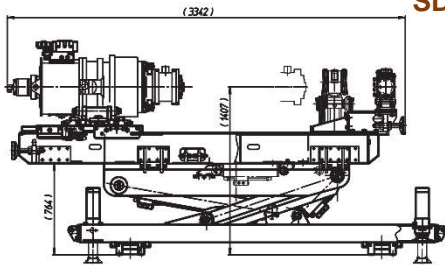


Dewatering hole drilling

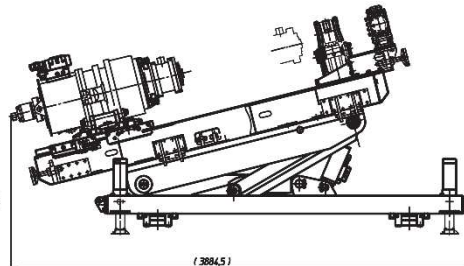


Dewatering hole drilling inside manhole

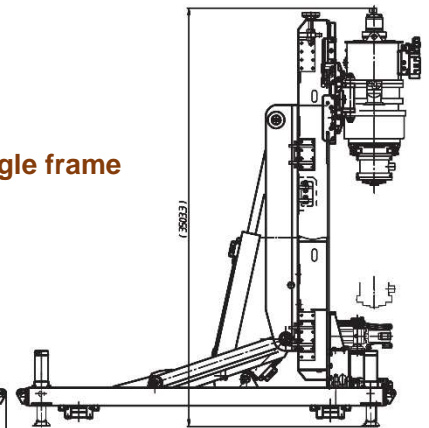
SDH-100 Drill mounted on optional angle frame



Horizontal position



Upward angle position



Vertical position

TECHNICAL SPECIFICATIONS

ROTARY HEAD		FEED SYSTEM	
Type	Hydraulic motor driven	Type	Hydraulic cylinder
Rotation speed	Low: 0 – 60 min ⁻¹	Feed force	60.8 KN
	High: 0 – 120 min ⁻¹	Feed stroke	1600 mm
Rotating torque	Low: 4.9 kN-m	Feed speed	For drilling: 2.04 m/min.
	High: 2.4 kN-m		For quick: 27 m/min.
Side slide stroke	597 mm	WEIGHT	
Drilling angle range	0 ~ +20° , 0~ -90°	Drill unit	2200 kg except angle frame
OSCILLATOR		Hydraulic unit	3100 kg
Type	Hydraulic motor driven	Operation stand	320 kg
Frequency	Max.130 Hz	BREAKOUT SYSTEM	
HYDRAULIC UNIT		Type	Hydraulic cylinder
For main unit	75 kW, electric motor	ROD CLAMP	
For air compressor (option)	1.5 kW, electric motor	For outer pipe	Hydraulic cylinder
Oil tank volume	400 L	For inner pipe (option)	Hydraulic cylinder

In accordance with our policy of constant improvement, we reserve the right to amend design, materials, specifications and prices at any time without prior notice.



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